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1 [Versions of Schema for Object-Oriented Databases](#)

Won Kim, Hong-Tai Chou

 August 1988 **Vldb '88: Proceedings of the 14th International Conference on Very Large Data Bases**
Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 31
2 [A model for compound type changes encountered in schema evolution](#)

 Barbara Staudt Lerner

 March 2000 **Transactions on Database Systems (TODS)** , Volume 25 Issue 1

Publisher: ACM

Full text available: Pdf (430.66 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 82, Citation Count: 14

Schema evolution is a problem that is faced by long-lived data. When a schema changes, existing persistent data can become inaccessible unless the database system provides mechanisms to access data created with previous versions of the schema. Mo existing ...

Keywords: persistent programming languages, schema evolution
3 [Design and development of a multiversion OLAP application](#)

 Jaremsri L. Mitranont, Somchart Fugkeaw

 April 2006 **SAC '06: Proceedings of the 2006 ACM symposium on Applied computing**
Publisher: ACM

Full text available: Pdf (230.49 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 62, Citation Count: 0


This paper proposes a temporal version mapping concept and a SQL query rewriting technique to support the OLAP query analysis in multidimensional database (MDB) systems modeled on multiversion schema. Based on our proposed model, an integrative solution ...

Keywords: OLAP query, multidimensional database, query rewriting technique, temporal version
4 [A distributed object-oriented database system supporting shared and private databases](#)

 Won Kim, Nat Bailou, Jorge F. Garza, Darrell Woelk

 January 1991 **Transactions on Information Systems (TOIS)** , Volume 9 Issue 1

Publisher: ACM

Full text available:  Pdf (1.58 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 73, Citation Count: 12

ORION-2 is a commercially available, federated, object-oriented database management system designed and implemented at MCC. One major architectural innovation in ORION-2 is the coexistence of a shared database and a number of private databases. The shared ...

Keywords: client-server architecture, federated databases, object-oriented databases

5 [Managing and querying transaction-time databases under schema evolution](#)

Hyun J. Moon, Carlo A. Curino, Alin Deutsch, Chien-Yi Hou, Carlo Zaniolo

August 2008 **Proceedings of the VLDB Endowment**, Volume 1 Issue 1

Publisher: VLDB Endowment

Full text available:  Pdf (888.65 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 41, Citation Count: 1

The old problem of managing the history of database information is now made more urgent and complex by fast spreading web information systems, such as Wikipedia. Our PRIMA system addresses this difficult problem by introducing two key pieces of ...

6 [Graceful database schema evolution: the PRISM workbench](#)

Carlo A. Curino, Hyun J. Moon, Carlo Zaniolo

August 2008 **Proceedings of the VLDB Endowment**, Volume 1 Issue 1

Publisher: VLDB Endowment

Full text available:  Pdf (859.42 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 60, Citation Count: 1

Supporting graceful schema evolution represents an unsolved problem for traditional information systems that is further exacerbated in web information systems, such as Wikipedia and public scientific databases: in these projects based on multiparty cooperation ...

7 [Applications of corpus-based semantic similarity and word segmentation to database schema matching](#)

Aminul Islam, Diana Inkpen, Iluju Kiringa

August 2008 **The International Journal on Very Large Data Bases**, Volume 17 Issue 5

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (1.78 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 92, Citation Count: 1

In this paper, we present a method for database schema matching: the problem of identifying elements of two given schemas that correspond to each other. Schema matching is useful in e-commerce exchanges, in data integration/warehousing, and in semantic ...

Keywords: Corpus-based methods, Database schema matching, Semantic similarity, Word segmentation

8 [WYSIWYG development of data driven web applications](#)

Fan Yang, Nitin Gupta, Chaydar Botev, Elizabeth F Churchill, George Levchenko, Jayavel Shanmugasundaram

August 2008 **Proceedings of the VLDB Endowment** , Volume 1 Issue 1

Publisher: VLDB Endowment

Full text available:  Pdf (854.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 90, Citation Count: 0


An emerging trend in Social Networking sites and Web portals is the opening up of the APIs to external application developers. For example, the Facebook Platform, Google Gadgets and Yahoo! Widgets allow developers to design their own applications, ...

9 [Native XML support in DB2 universal database](#)

Matthias Nicola, Bert van der Linden

August 2005 **VLDB '05: Proceedings of the 31st international conference on Very large databases**


Publisher: VLDB Endowment

Full text available:  Pdf (240.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 114, Citation Count: 12

The major relational database systems have been providing XML support for several years, predominantly by mapping XML to existing concepts such as LOBs or (object-) relational tables. The limitations of these approaches are well known in research and ..

10 [Impact analysis of database schema changes](#)

 Andy Maule, Wolfgang Emmerich, David S. Rosenblum

May 2008 **CSE '08: Proceedings of the 30th international conference on Software engineering**

Publisher: ACM


Full text available:  Pdf (699.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 247, Citation Count: 0

We propose static program analysis techniques for identifying the impact of relational database schema changes upon object-oriented applications. We use dataflow analysis to extract all possible database interactions that an application may make. We ...

Keywords: impact analysis

11 [Preserving XML queries during schema evolution](#)

 Mirella M. Moro, Susan Malaika, Lipyeow Lim

May 2007 **WWW '07: Proceedings of the 16th international conference on World Wide Web**

Publisher: ACM


Full text available:  Pdf (179.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 57, Citation Count: 1

In XML databases, new schema versions may be released as frequently as once every two weeks. This poster describes a taxonomy of changes for XML schema evolution. It examines the impact of those changes on schema validation and query evaluation. Based ...


Keywords: XML query, XML schema evolution

12 [Multi-dimensional clustering: a new data layout scheme in DB2](#)

 Sriram Padmanabhan, Bishwaranjan Bhattacharjee, Tim Maikemus, Leslie Cranston, Matthew Huras

June 2003 **SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM

Full text available:  Pdf (168.35 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 73, Citation Count: 10

We describe the design and implementation of a new data layout scheme, called multi-dimensional clustering, in DB2 Universal Database Version 8. Many applications, e.g., OLAP and data warehousing, process a table or tables in a database using a multi-dimensional ...


13 Schema Versioning in Multi-temporal XML Databases

Zouhaier Brahmia, Rafik Bouaziz

May 2008 **ICIS '08: Proceedings of the Seventh IEEE/ACIS International**

Conference on Computer and Information Science (icis 2008) - Volume 00, Volume 00

Publisher: IEEE Computer Society

Full text available:  [Publisher Site](#) **Additional Information:** [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Schema evolution keeps only the current data and the schema version after applying schema changes. On the contrary, schema versioning creates new schema versions and preserves old schema versions and their corresponding data. Much research work has recently ...

Keywords: Temporal databases, XML databases, Schema versioning, XML Schema


14 Database schema evolution using EVER diagrams



Chien-Tsai Liu, Shi-Kuo Chang, Panos K. Chrysanthis

June 1994 **AVI '94: Proceedings of the workshop on Advanced visual interfaces**

Publisher: ACM

Full text available:  Pdf (863.63 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 30, Citation Count: 3

We present an approach to schema evolution through changes to the ER diagram representing the schema of a database. In order to facilitate changes to the ER schema, we enhance the graphical constructs used in ER diagrams, and develop EVER, an Evolutionary ...


15 MoodView: an advanced graphical user interface for OODBMSs



Ismailem Budak Arpinar, Asuman Doğaç, Cem Evrendilek

December 1993 **SIGMOD Record**, Volume 22 Issue 4

Publisher: ACM

Full text available:  Pdf (777.58 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Citation Count: 3

OODBMSs need more than declarative query languages and programming languages and their interfaces since they are designed and implemented for complex applications requiring more advanced and easy to use visual interfaces. We have developed a complete ...

Keywords: graphical user interfaces, object-oriented databases


16

A distributed engineering database management system for IC design

Wanlin Cao, Y. Edmund Lien, Yuane Qiu, Li Shao

February 1991 **EURO-DAC '91: Proceedings of the conference on European design automation**

Publisher: IEEE Computer Society Press

Full text available:  Pdf (363.34 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 5, Citation Count: 0

We describe a distributed engineering database subsystem (DDB) which is an integral part of the framework in the PANDA IC-CAD system. DDB provides a simple but effice method for organizing the IC design data in a distributed environment. With version ...

17 [Using Dijkstra's algorithm to incrementally find the k-Nearest Neighbors in spatial network databases](#)



Victor Teixeira de Almeida, Ralf Hartmut Güting

April 2006 **SAC '06: Proceedings of the 2006 ACM symposium on Applied computing**

Publisher: ACM

Full text available:  Pdf (166.18 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 163, Citation Count: 4

One of the most important kinds of queries in Spatial Network Databases (SNDB) to support Location-Based Services (LBS) is the *k*-Nearest Neighbors (*k*-NN) query. Given a point in a network, e.g. a location of a car on a road network, and ...


Keywords: index structures, location-based services, nearest neighbors, spatial databases

18 [Efficient query processing for multi-dimensionally clustered tables in DB2](#)

Bishwaranjan Bhattacharjee, Sriram Padmanabhan, Timothy Maikemus, Tony Lai, Leslie Cranston, Matthew Huras

September 2003 **VLDB '2003: Proceedings of the 29th international conference on Very large data bases - Volume 29**, Volume 29

Publisher: VLDB Endowment

Full text available:  Pdf (189.43 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 23, Citation Count: 5


We have introduced a Multi-Dimensional Clustering (MDC) physical layout scheme in DB2 version 8.0 for relational tables. Multi-Dimensional Clustering is based on the definition of one or more orthogonal clustering attributes (or expressions) of a table. ..

19 [Implementing XQuery 1.0: the Galax experience](#)

Mary Fernández, Jérôme Siméon, Byron Choi, Amélie Marian, Gargi Sur

September 2003 **VLDB '2003: Proceedings of the 29th international conference on Very large data bases - Volume 29**, Volume 29

Publisher: VLDB Endowment

Full text available:  Pdf (25.22 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 36, Citation Count: 2

Galax is a light-weight, portable, open-source implementation of XQuery 1.0. Started i December 2000 as a small prototype designed to test the XQuery static type system, Galax has now become a solid implementation, aiming at full conformance with the ...


20 [Knowledge management and XML: derivation of synthetic views over semi-structured data](#)



Mario Cannataro, Antonella Guzzo, Andrea Pugliese

April 2002 **SIGAPP Applied Computing Review** , Volume 10 Issue 1

Publisher: ACM

Full text available:  Pdf (126.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 118, Citation Count: 1





One of the effects of the expansion of the World Wide Web is the production of a huge amount of data, differentiated for type, available to a large number of different users. Furthermore, the constant progress of computer hardware technology in the ...

Keywords: XML, data synthesization, lossy compression

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